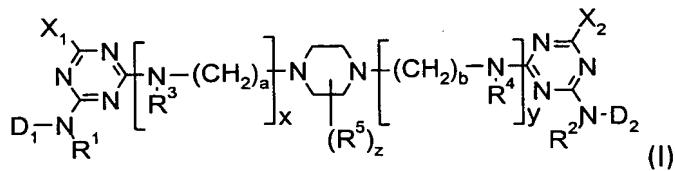


## Claims

## 1. A dyestuff of the formula I



5

wherein

each of R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>, independently, is H or an optionally substituted alkyl group;

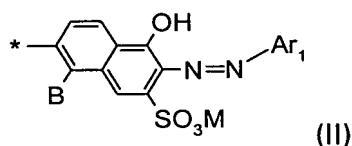
each of  $X_1$  and  $X_2$ , independently, is a labile atom or group;

each of  $x$  and  $y$ , independently, is 0 or 1 and at least one of  $x$  and  $y$  is 1;

each of  $a$  and  $b$  is 2 to 5 and when each of  $x$  and  $y$  is 1,  $a > b$ ; and

$z$  is 0, 1, 2, 3 or 4.

D<sub>1</sub> is a group of the formula II



15

wherein

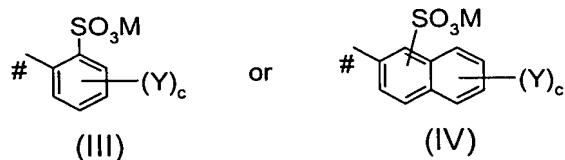
B is H or  $\text{SO}_3\text{M}$ ;

M is H, an alkali metal, an ammonium ion or the equivalent of an alkaline earth metal;

20

\* indicates the bond to the triazinylamino group;

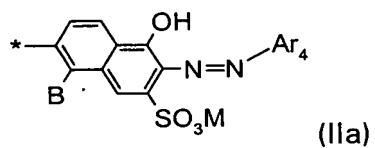
$\text{Ar}_1$  is a group of the formula III or of the formula IV



wherein

25 the or each Y independently is SO<sub>3</sub>M or an alkyl group, c is 0, 1 or 2, M is defined as given above and # indicates the bond to the azo group; or

D<sub>1</sub> is a group of the formula IIa



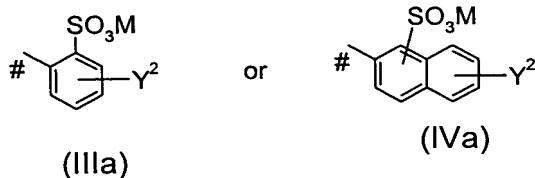
wherein

B is H or  $\text{SO}_3\text{M}$ ;

5 M is H, an alkali metal, an ammonium ion or the equivalent of an alkaline earth metal;

\* indicates the bond to the triazinylamino group;

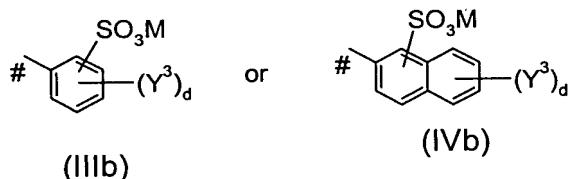
$\text{Ar}_4$  is a group of the formula IIIa or of the formula IVa



10 wherein

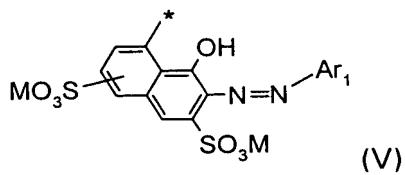
$\text{Y}^2$  is  $-\text{N}=\text{N}-\text{Ar}_5$ , M is defined as given above and # indicates the bond to the azo group, wherein

$\text{Ar}_5$  is a group of the formula IIIb or of the formula IVb



wherein the or each Y<sup>3</sup> independently is SO<sub>3</sub>M or an alkyl group, d is 0, 1 or 2, M is defined as given above and # indicates the bond to the azo group; or

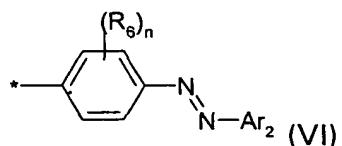
D<sub>1</sub> is a group of the formula V



wherein

$M_1$ , \* and  $Ar_1$  are defined as given above; or

D<sub>1</sub> is a group of the formula VI



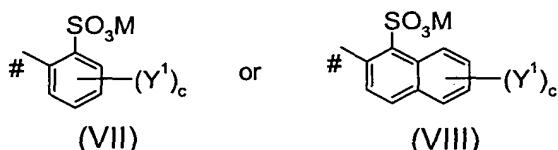
wherein

\* is defined as given above

5 n is 0, 1, 2 or 3;

the or each R<sub>6</sub> independently is H, (C<sub>1</sub>-C<sub>4</sub>)-alkyl, (C<sub>1</sub>-C<sub>4</sub>)-alkoxy, NHCONH<sub>2</sub>, NHCO(C<sub>1</sub>-C<sub>4</sub>)-alkyl, SO<sub>3</sub>M or halogen;

$\text{Ar}_2$  is a group of the formula VII or of the formula VIII



10

wherein

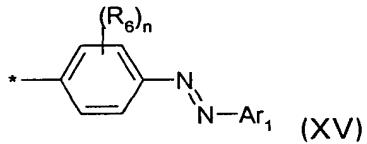
the or each Y<sup>1</sup> independently is SO<sub>3</sub>M or an alkyl group or -N=N-Ar<sub>3</sub>,

wherein Ar<sub>3</sub> is an optionally substituted phenylene or naphthylene moiety;

c is 0, 1 or 2, M is defined as given above and # indicates the bond to the

15 azo group; or

D<sub>1</sub> is a group of the formula (XV)



wherein R<sup>6</sup>, Ar<sub>1</sub>, n and \* are defined as given above

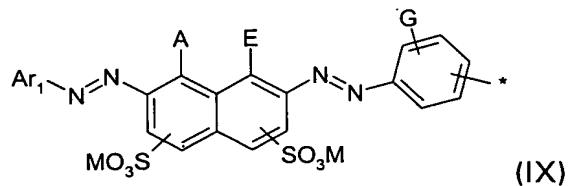
D<sub>1</sub> is an azoacetoacetamidoaryl, azopyridone, azopyrazolone or an azopyrimidine

20 chromophore;

$D_2$  is a group of the formula II, provided  $D_1$  is not a group of the formula V; or

D<sub>2</sub> is a group of the formula IIa; or

D<sub>2</sub> is a group of the formula IX



wherein

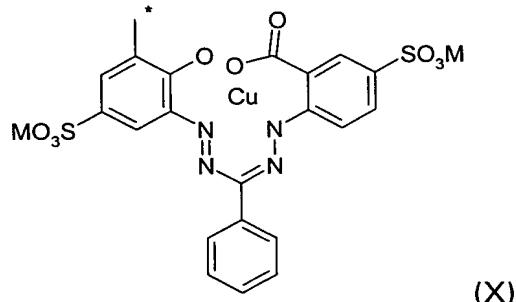
A and E are independently OH or NH<sub>2</sub> and A ≠ E;

G is H, (C<sub>1</sub>-C<sub>4</sub>)-alkyl, (C<sub>1</sub>-C<sub>4</sub>)-alkoxy, SO<sub>3</sub>M or halogen; and

Ar<sub>1</sub>, M and \* are defined as given above; or

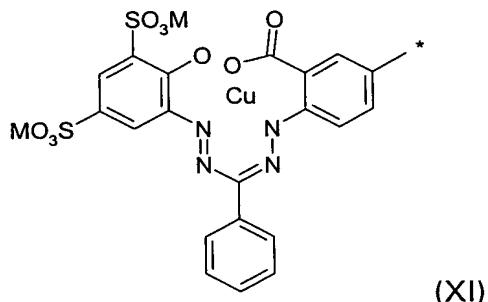
D<sub>2</sub> is a group of the formula VI; or

D<sub>2</sub> is a group of the formula X



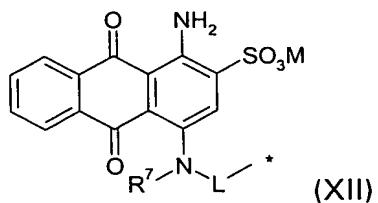
wherein M and \* are defined as given above; or

D<sub>2</sub> is a group of the formula XI



wherein M and \* are defined as given above; or

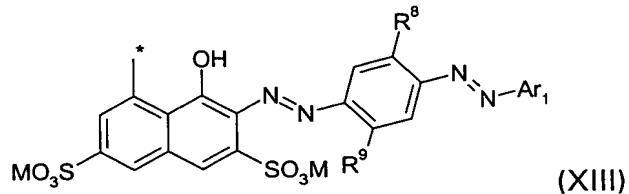
D<sub>2</sub> is a group of the formula XII



wherein

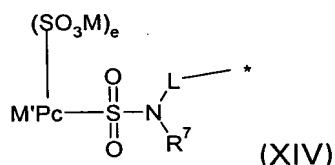
R<sup>7</sup> is H or (C<sub>1</sub>-C<sub>4</sub>)-alkyl;

L is a divalent moiety and  
 M and \* are defined as given above; or  
 $D_2$  is a group of the formula XIII



5       wherein  
 $R^8$  and  $R^9$ , independently, are H, halogen, ( $C_1$ - $C_4$ )-alkyl or ( $C_1$ - $C_4$ )-alkoxy;  
 and M,  $Ar_1$  and \* are defined as given above; or

$D_2$  is a group of the formula XIV



10      wherein  
 $M'$  is a metal atom;  
 Pc is a phthalocyanine chromophore;  
 $e$  is < 4; and  
 $M$ , L and  $R^7$  are defined as given above; or

15     $D_2$  is a group of the formula XV; or  
 $D_2$  is an azoacetoacetamidoaryl, azopyridone, azopyrazolone or an azopyrimidine chromophore.

2. A dyestuff of the formula I as claimed in claim 1, wherein  $D_1$  and  $D_2$  both are  
 20    a group of the formula (II), with the proviso, however, that  $D_1 \neq D_2$  or  $D_1 = D_2$   
 if  $R^1 \neq R^2$ .

3. A dyestuff of the formula I as claimed in claim 1, wherein  
 $D_1$  is a group of the formula (II) and  
 25     $D_2$  is a group of the formula (IX).

4. A dyestuff of the formula I as claimed in claim 1, wherein

D<sub>1</sub> is a group of the formula (V) and

D<sub>2</sub> is a group of the formula (XV).

5. A dyestuff of the formula I as claimed in claim 1, wherein

D<sub>1</sub> is a group of the formula (XV) or an azoacetoacetamidoaryl, azopyridone,  
azopyrazolone or an azopyrimidine chromophore; and

D<sub>2</sub> is a group of the formula (IX), a group of the formula (X), a group of the  
formula (XI), a group of the formula (XII), a group of the formula (XIII) or a  
group of the formula (XIV).

10

6. A dyestuff of the formula I as claimed in claim 1, wherein

D<sub>1</sub> is a group of the formula (II), a group of the formula (VI) or an  
azoacetoacetamidoaryl, azopyridone, azopyrazolone or an azopyrimidine  
chromophore; and

15 D<sub>2</sub> is a group of the formula (VI), or an azoacetoacetamidoaryl, azopyridone,  
azopyrazolone or an azopyrimidine chromophore.

7. A dyestuff as claimed in one or more of claims 1 to 6, wherein X<sub>1</sub> and X<sub>2</sub> are  
halogen, preferably chlorine.

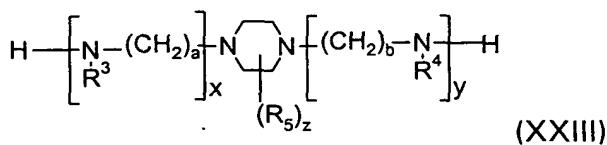
20

8. A dyestuff as claimed in one or more of claims 1 to 7, wherein M is H or an  
alkaline metal, preferably sodium.

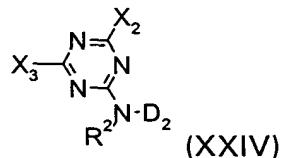
25 9 A dyestuff as claimed in one or more of claims 1 to 8, wherein R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>  
are H.

10. A dyestuff as claimed in one or more of claims 1 to 9, wherein a = b = 2  
with x = 0 and y = 1 or x = 1 and y = 0.

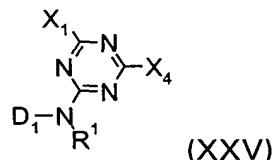
30 11. A process for preparing a dyestuff of formula I as claimed in one or more of  
claims 1 to 10 by reacting a piperazine compound of the formula XXIII



wherein  $\text{R}^3$ ,  $\text{R}^4$ ,  $\text{R}^5$ ,  $a$ ,  $b$ ,  $x$ ,  $y$ , and  $z$  are defined as given in claim 1, with a compound of the formula XXIV



5 wherein  $\text{R}^2$ ,  $\text{X}_2$  and  $\text{D}_2$  are defined as given in claim 1 and  $\text{X}_3$  is a labile atom or a group capable of reaction with an amine, preferably chlorine, and with a compound of the formula XXV



wherein  $\text{R}^1$ ,  $\text{X}_1$  and  $\text{D}_1$  are defined as given in claim 1 and  $\text{X}_4$  has one of the  
10 meanings of  $\text{X}_3$ .

12. A process for dyeing and printing hydroxy- and/or carboxamido-containing fibre materials in which a dyestuff of the formula I according to one or more of claims 1 to 10 is used.